

Title (en)

COATING COMPOSITION FOR FORMING INSULATING FILMS, NON-ORIENTED ELECTRICAL STEEL SHEET WITH THE COATING COMPOSITION COATED THEREON, AND METHOD FOR FORMING THE INSULATING FILMS ON THE STEEL SHEET

Title (de)

BESCHICHTUNGSZUSAMMENSETZUNG ZUR BILDUNG VON ISOLIERENDEN FILMEN, DAMIT ÜBERZOGENES NICHT ORIENTIERTES ELEKTRISCHES STAHLBLECH, SOWIE VERFAHREN ZUR BILDUNG VON ISOLIERENDEN FILMEN AUF DAS STAHLBLECH

Title (fr)

COMPOSITION DE REVETEMENT PERMETTANT DE FORMER DES FILMS ISOLANTS, FEUILLE D'ACIER ELECTRIQUE NON ORIENTE RECOUVERTE DE LADITE COMPOSITION ET TECHNIQUE D'APPOSITION DE FILMS ISOLANTS SUR CETTE FEUILLE D'ACIER

Publication

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Application

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Abstract (en)

[origin: WO0168778A1] A coating composition for forming insulating films, a non-oriented electrical steel sheet with the coating composition coated thereon, and a method for forming the insulating films on the steel sheet, are disclosed. The coating composition includes the following ingredients for each 100 g of phosphoric acid of a primary aluminum phosphate solution. That is, they are 28~98 g (solid weight) of an acid-soluble emulsion type acrylic-styrenic copolymer resin, 6~18 g of zinc nitrate, 4~13 g of a silicon additive, 18~35 g of ethylene glycol, and 3~11 g of non-ionic surfactant. The non-oriented electrical steel sheet is coated with the above coating composition. The coating composition is superior in the roll coating workability and in the film characteristics, and further, it is environmentphilic and has a superior aesthetics.

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See references of WO 0168778A1

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